

Sensor/Actuator cable - SAC-8P- 5,0-PUR/M 8FS SH - 1404149

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Sensor/Actuator cable, 8-position, PUR, Black RAL 9005, shielded, Free cable end, on Socket straight M8, Cable length: 5 m

Product Features

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Our standard: robust halogen-free PUR cable
- ✓ Save space – with high-pos. plug-in connectors
- ✓ Reliable signal transmission – 360° shielding in environments with electromagnetic interference



Key commercial data

| | |
|----------------------|---|
| Packing unit | 1 PCE |
| GTIN |  4 046356 680677 |
| Custom tariff number | 85444290 |
| Country of origin | GERMANY |

Technical data

General data

| | |
|---------------------------------|----------------------------------|
| Rated current at 40°C | 1.5 A |
| Rated voltage | 30 V |
| Number of positions | 8 |
| Volume resistance | ≤ 5 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Length of cable | 5 m |
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket) |

General characteristics

| | |
|-----------------------|--------------------------------------|
| Standards/regulations | M8 plug-in connector IEC 61076-2-104 |
|-----------------------|--------------------------------------|

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Technical data

General characteristics

| | |
|-----------------------------|---|
| Coding | A - standard |
| Pollution degree | 3 |
| Degree of protection | IP65 |
| Degree of protection | IP67 |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 0.2 Nm (M8 plug-in connectors) |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | TPU GF |
| Material of grip body | TPU, hardly inflammable, self-extinguishing |
| Material, knurls | Zinc die-cast, nickel-plated |
| Sealing material | NBR |
| Status display | No |

Conductor data

| | |
|---|--|
| Cable abbreviation | Li9YV1-C-V1-11Y |
| UL AWM style | 20549 |
| Conductor cross section | 8x 0.14 mm ² (signal line) |
| AWG signal line | 26 |
| Conductor structure signal line | 18x 0.10 mm |
| Core diameter including insulation | 1 mm ±0.02 mm (signal line) |
| Thickness, insulation | ≥ 0.21 mm (signal line) |
| Thickness, insulation | ≥ 0.38 mm (Outer cable sheath) |
| Wire colors | white, brown, green, yellow, gray, pink, blue, red |
| Overall twist | 8 wires around filler to the core |
| Length of twist, overall twist | 58 mm |
| Shielding | Tinned copper braided shield |
| Optical shield covering | 85 % |
| External sheath, color | Black-gray RAL 7021 |
| External cable diameter D | 5.9 mm ± 0.2 mm |
| Smallest bending radius, fixed installation | 29.5 mm |
| Smallest bending radius, movable installation | 59 mm |
| Number of bending cycles | 2000000 |
| Bending radius | 59 mm |
| Traversing path | 10 m |
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s ² |
| Outer sheath, material | PUR |

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Technical data

Conductor data

| | |
|---------------------------------|---|
| Material, filler | PE |
| Material conductor insulation | PP |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | 1 GΩ*km (at 20 °C) |
| Conductor resistance | 139 Ω/km (at 20 °C) |
| Nominal voltage, conductor | ≤ 300 V AC |
| Test voltage, conductor | ≥ 3000 V AC (Spark test) |
| Test voltage Core/Shield | ≥ 2000 V AC (for 60 s) |
| Flame resistance | according to UL 758/1581 (horizontal) |
| Flame resistance | In accordance with UL 758/1581 FT2 |
| Halogen-free | in accordance with DIN VDE 0472 part 815 |
| Halogen-free | in accordance with DIN EN 50267-2-1 |
| Resistance to oil | According to DIN EN 60811-2-1, 168 h at 100°C |
| Other resistance | hydrolysis and microbe resistant |
| Other resistance | Resistant to salt water |
| Other resistance | Low adhesion |
| Other resistance | abrasion-resistant |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| Ambient temperature (operation) | -25 °C ... 80 °C (cable, flexible installation) |

Classifications

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 11 | 31251501 |
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2 | 31251501 |
| UNSPSC 6.01 | 31251501 |
| UNSPSC 7.0901 | 31251501 |

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |

Accessories

Accessories

Marking

Insert label - PABA WH/15 - 1013151



Insert label, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

Insert label - PABA YE/15 - 1013698



Insert label, Strip, yellow, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

Insert label - PABA RD/15 - 1013944



Insert label, Strip, red, Unlabeled, Can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

Conductor marker carrier - PATG 2/23 - 1013850



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 2-4 mm, Lettering field: 4 x 23 mm

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Accessories

Conductor marker carrier - PATG 3/23 - 1013863



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 4-7 mm, Lettering field: 4 x 23 mm

Conductor marker carrier - PATG 4/23 - 0808011



Conductor marker carrier, transparent, Unlabeled, Mounting type: Slide on, Cable diameter: 6-10 mm, Lettering field: 4 x 23 mm

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Protection and sealing elements

Screw plug - PROT-M 8 MS-PA-CHAIN - 1430860

M8 sealing cap made of plastic with fixing band for sensor cables, for M8 sockets



Tools

Torque screwdriver - TSD 02 SAC - 1208487



Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

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Accessories

Tool - SAC BIT M8-D10 - 1208461



Nut for assembling sensor/actuator cables with M8 connector and for M8 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

Cable-cutting tool - CUTFOX-S VDE - 1212207



Diagonal cutter for copper and aluminum conductors, VDE-tested

Stripping tool - WIREFOX SAC - 1212623



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from \varnothing of 4.4 to 7 mm, any stripping length

Stripping tool - WIREFOX 10 - 1212150

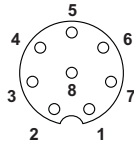


Stripping tool, for cables and conductors from 0.02 - 10 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, replaceable stripping blade

Drawings

Sensor/Actuator cable - SAC-8P- 5,0-PUR/M 8FS SH - 1404149

Schematic diagram



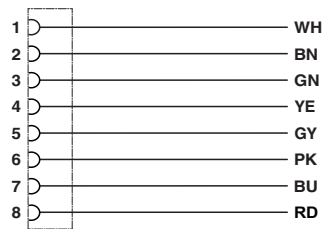
Connector pin assignment of M8 socket, 8-pos., view of socket side

Cable cross section



PUR halogen-free black shielded [PUR]

Circuit diagram



Contact assignment of M8 socket

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Dimensioned drawing

